

April 30, 2019

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Certified Mail
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7016 1370 0000 0848 9978

ADEC Air Permits Program 610 University Avenue Fairbanks, Alaska 99709-3643 ATTN: Compliance Technician

Subject: Operating Report - First Quarter 2019

Kuparuk Central Production Facility No.1

Permit No. AQ0267TVP01 Rev. 2, 8 August 2007

CPF-1 Standby Generators AQ0267MSS07, 31 October 2014

Enclosed are the original and two copies of the ConocoPhillips Alaska, Inc. (COPA) Operating Report (OR) for the quarter ending March 31, 2019, as required by the referenced Air Quality Operating Permit for the Kuparuk Central Production Facility #1 (CPF-1). Reporting required by CPF1 Emergency Generators Project under Air Quality Minor Permit No. AQ0267MSS07 is included in this submittal.

In a routine audit, fuel use errors were discovered for EU IDs 58, 59, 61, and 62. Errors occurred in November and December 2016 and June, October, and December 2017. See Attachment 8 for fuel use corrections.

In a routine audit, an error was found on the 1E-1J Operator Venting Logsheet submitted for June 2018. See Attachment 9 for the corrected Logsheet.

On March 12, 2019, corrections to the 2018 third quarter and fourth quarter operating reports were submitted to the Department. Those materials are not included in this submittal however this notation is intended to record the submittal activity during the reporting period.

If you have any questions or need additional information regarding this report, please contact us at n1037@conocophillips.com or by phone at (907) 659-7242.

Sincerely,

Brad Broker/Catie Coursen Environmental Coordinator

Attachments

cc: Compliance Technician, Fairbanks

dec.aq.airreports@alaska.gov

Air Quality Operating Permit No. AQ0267TVP01, Rev. 2 (issued August 8, 2007)

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First Quarter 2019 Operating Report January 1, 2019 through March 31, 2019 Air Quality Operating Permit No. AQ0267TVP01, Rev. 2 (issued August 8, 2007)

Date: 4/27/19

L Certification

Permit Number:

Air Quality Operating Permit No. AQ0267TVP01 Rev. 2, August 8, 2007

Operating Report:

First Quarter 2019; January 1 through March 31

Statement of Certification

Based on information and belief formed after reasonable inquiry, I certify that the statements and information in and attached to this document are true, accurate, and complete.

I certify that Emission Units 1 through 3, 10, 11, 14, 16, 17, and 37 through 50 burned only gas as

fuel for this reporting period.

Signature:

Dennis Melton/Scott Fahrney //

CPF1 and CPF2 Operations Superintendent

II. Source Identification and Location

ConccoPhillips Alaska, Inc. 700 G Street (zip 99501) P.O. Box 100360 Anchorage, AK 99510-0360

Stationary Source Name:

Central Production Facility #1 (CPF-1)

Location:

Kuparuk Oil Field

UTM Coordinates:

Northing 7803800, Easting 402000, Zone 6

Township and Range:

Section 9, T11N, R10E (Production Pad) Sections 16 & 21, T11N, R10E (DS1E)

Section 35, T11N, R10E (DS1J)

Umiat Meridian

Permit Number:

Air Quality Operating Permit No. AQ0267TVP01 Rev. 2

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Air Quality Operating Permit No. AQ0267TVP01, Rev. 2 (issued August 8, 2007)

III. Permit Requirements and Compliance Documentation

Condition Number	Requirement	Compliance Documentation
Section 5. E	Emission Unit-Specific Requirements	
	If any of EU IDs 19 through 28 operate (for emergencies or non-emergencies) for more	No Method 9 opacity readings required.
3.3, 98, 99	than the number of hours stated in Condition 3.3, perform a Method 9 visible emission observation. Include a summary of results of all Method 9 readings in the OR.	Units 19 through 28 operated for less than the number of hours (140 hours for Units 19 and 20 and 400 hours for Units 21 through 28) stated in Condition 3.3.
	If any of EU IDs 4 through 9, 12, 13, 15, and 18 operate on liquid fuel for more than 400 hours in	No Method 9 opacity readings required.
3.4, 98, 99	a calendar year perform a Method 9 visible emission observation while firing liquid fuel. Include a summary of results of all Method 9 readings in the OR.	Units 4 through 9, 12, 13, 15, and 18 operated on liquid fuel for less than 400 hours stated in Condition 3.4.
3.5, 102	For EU IDs 29 through 34 (flares), monitor, record and report the first six daylight flare events during the life of the permit.	For EU ID 29 through 33 Flares, six daylight flare events have been observed: one on 18 July 2003, three on 28 July 2004; one on 16 Sep 2005; and one on 4 Aug 2006. Portable Flare EU ID 34 (Tag No. PF1) is neither operated nor present in the Kuparuk Field and thus not included in the ORs.
3.6, 98, 99	For EU IDs 35 and 36 (incinerators), perform a Method 9 visible emission observation once per calendar year. Include a summary of results of all Method 9 readings in the OR.	A Method 9 observation was not conducted for EU 35 during the reporting period. EU ID 36 did not operate during the reporting period and was physically removed 10 October 2018. Refer to Section IV.
3.8, 98, 99	If any rig camp engine (EU ID 60) is no longer a nonroad engine and combusts more than 13,500 gallons of fuel per consecutive 12-month period, perform a Method 9 visible emission observation. Include a summary of results of all Method 9 readings in the OR.	There were no rig camp engines that qualified under this permit or this condition.
5.1a, 32.4,	When using liquid fuel from a North Slope topping plant in EU IDs 1 - 34, 37- 50, 59, and 60, include a list of the sulfur contents measured	See Attachment 1.
32.7	for each month covered by the report in the OR. Report changes to fuel supplier/ source to EPA Region 10.	There were no changes to the liquid fuel supplier or source.
5.1d	When using liquid fuel from a North Slope topping plant with a sulfur content greater than 0.75% by weight, include the calculated SO2 emissions in ppm in the OR.	There was no liquid fuel with sulfur content greater than 0.75% by weight used during this reporting period.

Condition Number	<u>Requirement</u>	Compliance Documentation
5.2b, 5.2d, 9.3, 32.1, 32.4	For fuel gas, submit records of fuel sulfur content standard analyses. 1. Demonstrate that fuels meet definition of natural gas; or 2. Monitor total sulfur fuel content using approved method from NSPS Subpart GG. OR 3. If a demonstration is not made that the fuel meets the definition of natural gas, then the sulfur content of the fuel may be determined semi-annually using an analytical method approved by EPA in a custom fuel monitoring plan/schedule. Include copies of the records with the OR.	See the reported monthly H2S fuel gas content analyzed by ASTM Method D4810 in Attachment 1.
BACT Emiss	sion Limits	
6.2	For EU ID 1-3 and 8-13, report monthly and consecutive 12-month period sum of NO _x , SO ₂ , CO, PM, and VOC emissions, for each month of the reporting period, with the OR.	See Attachment 3.
7.2	For EU ID 16, 37-41, 43-45, and 48-50, report monthly and consecutive 12-month period summation of NO _x , SO ₂ , CO, and PM emissions, for each month of reporting period, with the OR.	See Attachment 3.
8.2	For EU ID 36, report monthly and consecutive 12-month period summation of NO _x , SO ₂ , CO, PM and VOC emissions, for each month of reporting period, with the OR.	See Attachment 3.
9.2, 31.6	If EU ID 14 is tested or represented by testing at less than maximum load and for which the load must be limited under Condition 31.4c, include the information required in Condition 31.6.a(i) – (iii) in the OR.	EU ID 14 GE Frame 6 Gas Turbine Electric Generator was tested on August 8-9, 2018 at loads up to 81% based on prevailing ambient conditions. No load limits resulted.
Fuel Consur	mption Monitoring for EU IDs 1-50, and 58-63	
10.4	For each emission unit group (turbines, heaters, engines, flares, incinerators, drill site heaters, drill rig engines, drill rig heaters and boilers, rig camp engines, well service heaters, well service engines, and well frac unit engines), report the monthly total fuel consumption for each fuel type (MMscf/month and/or gallons/month) and the stationary source total fuel consumption, for each month covered by the reporting in the OR.	See Attachment 3.
10.5, 18.1	Report the 12-consecutive month total fuel consumption (MMscf or gallons) for each emission unit group described by EU IDs 34 and 58-63 for each month of the reporting period in the OR.	See Attachment 2 for EU ID 58-63. Portable Flare EU ID 34 (Tag No. PF1) is neither operated nor present in the Kuparuk Field and thus not included in the OR.

Condition Number	Requirement	Compliance Documentation
10.6, 15.1, 16.1, 17.1, 18.1	Report maximum total daily fuel use EU ID 34, 58, 61 and 62 combined, and 63 for each month covered by the reporting period in the OR.	Portable Flare EU ID 34 (Tag No. PF1) is neither operated nor present in the Kuparuk Field and thus not included in the OR. For EU ID 58, 61 and 62, see Attachment 2.
Hours of Op	eration Monitoring for Fuel-Fired Emission Units	
11.1, 11.3	For each of EU ID 1-18 and 35-50, report the monthly operating time in the OR.	See Attachment 2.
11.2, 11.3	For EU ID 4-9, 12, 13, 15, and 18, report the monthly operating time separately for fuel gas and liquid fuel firing, and the calendar year total liquid fuel operating time in the OR.	See Attachment 2.
Fuel Gas Hy	rdrogen Sulfide Content Limit	
12.2	For EU ID 1-18 and 29-50, report the monthly and rolling 12-month average fuel gas H ₂ S concentration, for each month of the reporting period, with the OR.	See Attachment 3.
Liquid Fuel S	Sulfur Content Limit	1
13.1, 32.4	Report the liquid fuel sulfur content in the OR.	See Attachment 1.
NOx Monitor	ring, Recordkeeping, and Reporting for NSPS Sub	part GG Turbines
31.6a	For turbines (EU IDs 1-3 and 10-13) that are subject to load limits to comply with NSPS Subpart GG and/or BACT emission limits, list each turbine tested or represented by testing at less than maximum load and for which the load must be limited (by Condition 31.4c) include the following information in the OR. 1) The load limit; 2) The turbine identification; and 3) The highest load recorded as part of the recordkeeping requirements.	None of the turbines listed in Condition 31.6 is limited by testing results as described in Condition 31.4. This condition was not triggered during the operating period.
31.6b	For each turbine subject to NSPS Subpart GG and/or BACT emission limits (EU IDs 1-3 and 10-13) that has not been required to conduct periodic source testing because it normally operates less than 400 hours in any 12 months, but has now operated more than 400 hours in a 12-month period ending during the reporting period, identify in the OR: 1) the turbine, 2) The highest number of operating hours for any 12 months ending during the period covered by the report, and 3) Any turbine that operated 400 or more hours.	This condition was not triggered for the affected turbines during the operating period.
32.4	Submit a summary of the sulfur analysis analytical results taken to comply with the fuel sulfur content standard (see Condition 5.2d above) with each OR.	See Attachment 1.

Condition Number	<u>Requirement</u>	Compliance Documentation
	Owner Requested Limits (ORL)	
Operating H	ours of Emergency Liquid fuel-fired Engines	
37.2	For EU ID 19-28, report the monthly and consecutive 12-month period operating time for each emission unit in the OR.	See Attachment 2.
ORL for Emi	ission Unit 16 to avoid exceeding 43 MMBtu/hr firing	ng rate
38.3	For EU ID 16, report the maximum daily average fuel consumption rate for each month in the OR.	See Attachment 2.
Limits to Avo	oid Classification as PSD Major	
39.2	For EU ID 1-3, report the 12-consecutive month period summation of NO _x emissions from these emission units, combined, for each month in the OR.	See Attachment 3.
40.1	For EU ID 42, 46, and 47, report the make and rating of each production heater in the next OR following initial startup of each unit.	Documentation submitted to ADEC April 21, 2006 in the First Quarter 2006 Operating Report.
41.5	For EU ID 34, 42, 46, 47, and 59, report the 12-consecutive month SO ₂ emissions for these emission units, combined, for each month of the reporting period, with each OR.	Portable Flare EU ID 34 (Tag No. PF1) is neither operated nor present in the Kuparuk Field and thus not included in the OR. See Attachment 3.
42.3	For EU ID 56, include with each OR: a) Monthly estimated VOC emissions from these tanks at DS1E and DS1J and the 12 consecutive month VOC emissions, for each month in the reporting period;	See Attachment 3.
42.3	For EU ID 56, include with each OR: b) Input and output from simulation models and software used to estimate VOC emissions; and c) All calculations and assumptions used to estimate VOC emissions.	See Attachment 7.
ORL for Inci	nerators to avoid stationary source classification a	s "HAPs major"
43.2	For EU IDs 35 and 36, report the monthly and consecutive 12-month total summation of solid waste throughput for each month in the OR.	See Attachment 2.
44.3	For EU ID 36, report the monthly maximum hourly average charging rates (lb/hr) in the OR.	See Attachment 2.
Section 10.	Insignificant Emission Units	
54.3	For any of EU IDs 19-28 that have exceeded the IEU threshold of 18 AAC 50.326(e), or any of EU IDs 61-63 that have exceeded the IEU threshold of 18 AAC 50.326(f)(85), or any EU at the stationary source that has actual emissions greater than the IEU emissions thresholds,	This condition was not triggered in this reporting period.

Condition Number	<u>Requirement</u>	Compliance Documentation							
	include documentation of the emission unit emissions in the OR.								
Section 11.	Section 11. Generally Applicable Requirements								
61.5	Include summary information regarding any exclusion zone violations in the OR.	This provision was not triggered in this reporting period.							
70.5	Include a summary report about emissions complaints with the OR which includes: 1. Number of complaints received; 2. Number of times COPA or ADEC found corrective action necessary; 3. Number of times corrective action was taken within 24 hours; and 4. Status of corrective action COPA or ADEC found necessary that were not taken within 24 hours.	No complaints were received in this reporting period.							
Section 13.	General Recordkeeping, Reporting, and Comp	liance Certification Requirements							
87.1	Attach a copy of any NSPS and NESHAPs reports submitted to EPA Region 10 with the OR unless copies have already been provided to ADEC at time of submittal.	All reports submitted to EPA were provided to ADEC at the time they were submitted to EPA.							
88.2a	If excess emissions or permit deviations occurred during the reporting period and were not yet reported, identify: 1. Date of the deviation; 2. Equipment involved; 3. The permit condition affected; 4. A description of excess emissions or permit deviation; and 5. Any corrective action or preventive measures taken and the date	See Section VI of this report and Attachment 4 for excess emissions or permit deviations not previously submitted during the applicable reporting period.							
Section 16	Visible Emissions and PM Monitoring, Record	keening and Reporting							
98.2	If EU IDs 4-9, 12, 13, 15, 18, 19-28, 60, 35 or 36 trigger Condition 98.1, include a summary of the results of all Method 9 readings conducted during the reporting period in the OR.	This condition was not triggered in this reporting period.							
99.2	For EU IDs 4-9, 12, 13, 15, 18, 19-28, 60, 35 if Method 9 readings require corrective actions, submit a written record showing the starting date, completion date, and description of any actions taken to reduce visible emissions with each OR.	This condition was not triggered in this reporting period.							
	quirements not included in the Permit - Compre	ession Ignition RICE Subject to NESHAP							
Subpart ZZ	For EUs 22-28 include in the OR a report of Subpart ZZZZ deviations as defined in 40 C.F.R. 63.6675 and of each instance in which an applicable requirement in 40 C.F.R. 63, Subpart A (Table 8 of Subpart ZZZZ) was not met.	This condition was not triggered in this reporting period. There were no Subpart ZZZZ deviations during the reporting period. See Section IX.							

Air Quality Operating Permit No. AQ0267TVP01, Rev. 2 (issued August 8, 2007)

IV. Fuel Sulfur Content and Visible Emissions Observations

Condition 5.1.a: Liquid Fuel Sulfur Content

The Kuparuk River Unit began using Ultra Low Sulfur Diesel in accordance with the *North Slope Ultra Low Sulfur Diesel Transition Agreement* on January 1, 2009. Under this agreement, non-road engines are fueled with ULSD, while heaters and boilers are primarily fueled with Kuparuk Low End Point Diesel (though these too may occasionally be fueled with ULSD). ULSD was supplied by the Tesoro Refinery. Deliveries were provided by Colville Services up until January 23, 2019 after which Northern Oilfield Solutions provided delivery.

COPA collects and analyzes representative samples of ULSD and LEPD each month. Laboratory reports documenting the sulfur analysis appear as Attachment 1 to this report. Diesel is sampled at the CPF-1 ULSD Imported Product Tank No. 504 and LEPD Product Tank No. 501.

Condition 5.2 and 32.1: Fuel Gas Sulfur Content

An analytical report for monthly fuel gas H_2S is included as Attachment 1. In addition, the emission summary reports in Attachment 3 include a mean value for fuel gas H_2S which may be slightly different than the lab sample value. The reason for this difference is that the mean value reflects a daily average calculated from the previous month and current month samples.

Condition 3.6, 98.2, 99.2, 102: Results of the annual visible emission surveillance conducted during the reporting year are listed below.

ID	Tag No.	Description	Date of Reading	Permit Stipulation	Initials of Reader	Minimum Reading %	Maximum Reading %	Average Opacity

V. Hours of Operation, Fuel Type, Fuel Consumption and Applicable Operating Parameters for Period

Due to the requirement to report all quantities, even if zero, all regulated emission units are listed where required. All blanks indicate that applicable fuel use is not possible or that reporting is not required. Operating hours, fuel type, fuel consumption and applicable operating parameters are in Attachment 2.

Condition 10.4 of the permit requires reporting of monthly fuel use for each emission unit group, as well as the stationary source total fuel use for each month. The table in Attachment 3 presents the monthly liquid and fuel gas usage for each group and the total for the stationary source for this operating period.

VI. Dates of Excess Emission and Permit Deviation Reports which have already been filed with ADEC for Period

Condition 88.2.b: The permittee may cite report dates if already submitted to the department. Copies of these reports are provided in Attachment 5.

- March 12: Permit Deviation for lacking supporting information for EU 56.
- March 12: Permit Deviation for reporting deviation in 4Q18 Operating Report.

First Quarter 2019 Operating Report

Air Quality Operating Permit No. AQ0267TVP01, Rev. 2 (issued August 8, 2007)

VII. Record of Complaints for Reporting Period

No complaints were received during this reporting period.

VIII. Additional Reporting Required by AQ0267MSS07 (issued 31 October 2015)

Condition Number	Requirement	Compliance Documentation
5.2	For EU ID 69 and 70, attach a copy of the certified manufacturer guarantee or a copy of the observation records to the operating report.	EU ID 69 and 70 became fully operational on 5 May 2016. EU ID 69 and 70 were observed on 28 May 2016.
7.2	After installation of EU ID 69 and 70, affirm that the exhaust stack from the EU complies with vertical, uncapped exhaust.	EU ID 69 and 70 exhaust stacks are vertical and uncapped.

IX. Deviation Reporting for NESHAP Subpart ZZZZ

No Subpart ZZZZ deviations during this reporting period.

Air Quality Operating Permit No. AQ0267TVP01, Rev. 2 (issued August 8, 2007)

Attachment 1

Monthly Laboratory Analysis Results for Liquid Fuel and Fuel Gas Sulfur Content

First Quarter 2019 Operating Report

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KUPARUK LABORATORY ANALYTICAL REPORT

Kuparuk Title V Air Quality Report January 2019

Report Date: 2/5/19
To: NSK Environmental

Hydrogen Sulfide	e in Fuel Gas			H2S		
LIMs#	Sample location	Date	Result	Units	Reference	Notes
S-190105-00293	CPF-1 Frame 6 Fuel Gas H2S	1/5/2019	130	ppm	ASTM D4810-06	Monthly
S-190105-00294	CPF-1 Lift Gas H2S	1/5/2019	140	ppm	ASTM D4810-06	Monthly
S-190105-00295	CPF-2 Fuel Gas H2S	1/5/2019	80	ppm	ASTM D4810-06	Monthly
Multiple	CPF-3 Fuel Gas H2S	Multiple	199	ppm	ASTM D4810-06	Time-weighted Average for the Month
S-190105-00244	STP Fuel Gas H2S	1/5/2019	220	ppm	ASTM D4810-06	Monthly
S-190105-00245	STP DA Off-gas H2S	1/5/2019	0	ppm	ASTM D4810-06	Monthly
ULSD Imported F	Product Tank 801/902		Sulfu	r Content		
LIMs#	Sample location	Date	Result	Units	Reference	Notes
S-190116-00109	ULSD Imported Product Tank 801/902	1/12/2019	< 3	ppm	ASTM 7039-07 or ASTM D2622-10	Highest value recorded for month
Kuparuk LEPD			Sulfui	Content		
LIMs#	Sample location	Date	Result	Units	Reference	Notes
S-190114-00245	KUTP Tank 501 Low End Point Diesel	1/14/2019	1067.5 0.11	ppm Weight %	ASTM 7039-07 or ASTM D2622-10	Highest value recorded for month
CPF2 Tank 4201			Sulfui	r Content		
LIMs#	Sample location	Date	Result	Units	Reference	Notes
S-190111-00230	CPF2 T-4201 Monthly Diesel	1/6/2019	< 3	ppm	ASTM 7039-07 or ASTM D2622-10	Monthly

Note; NA- Not analyzed

Contact NSK Environmental group for copies of this report

KUPARUK LABORATORY ANALYTICAL REPORT

Kuparuk Title V Air Quality Report February 2019

Report Date: 3/3/19
To: NSK Environmental

Hydrogen Sulfide	e in Fuel Gas		H2S			
LIMs#	Sample location	Date	Result	Units	Reference	Notes
S-190202-00309	CPF-1 Frame 6 Fuel Gas H2S	2/2/19	125	ppm	ASTM D4810-06	Monthly
S-190202-00308	CPF-1 Lift Gas H2S	2/6/19	140	ppm	ASTM D4810-06	Monthly
S-190202-00310	CPF-2 Fuel Gas H2S	2/2/19	100	ppm	ASTM D4810-06	Monthly
S-190202-00230	CPF-3 Fuel Gas H2S	2/2/19	200	ppm	ASTM D4810-06	Monthly
S-190202-00231	STP DA Off-gas H2S	2/2/19	0	ppm	ASTM D4810-06	Monthly
S-190202-00232	STP Fuel Gas H2S	2/2/19	200	ppm	ASTM D4810-06	Monthly
		i			1	
ULSD Imported f			Sulfur	Content		
LIMs#	Sample location	Date	Result	Units	Reference	Notes
S-190224-00142	ULSD Imported Product Tank 801/901	2/23/2019	< 3	ppm	ASTM 7039-07 or ASTM D2622-10	Highest value recorded for month
		1			1	
ULSD Imported f				Content		
LIMs#	Sample location	Date	Result	Units	Reference	Notes
S-190228-00296	ULSD Imported Product from NOSI	2/27/2019	< 3	ppm	ASTM 7039-07 or ASTM D2622-10	Highest value recorded for month
V		I	0.14	~	1	
Kuparuk LEPD LIMs#		Date		Content	Reference	Notes
S-190225-00111	Sample location KUTP Tank 501 Low End Point Diesel	2/25/2019	Result 1090.62	Units	Releience	rectes
3-190223-00111	NOTE TAILS SOT LOW EITG FOILT DIESEL	2/23/2019	0.11	ppm Weight %	ASTM 7039-07 or ASTM D2622-10	Highest value recorded for month
			0.11	vveigitt 70		
CPF2 Tank 4201			Sulfur	Content		
LIMs#	Sample location	Date	Result	Units	Reference	Notes
S-190204-00256	CPF2 T-4201 Monthly Diesel	2/4/2019	3.42	ppm	ASTM 7039-07 or ASTM D2622-10	Monthly
	5		0.12	PP'''		wieniny

Note; NA- Not analyzed

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KUPARUK LABORATORY ANALYTICAL REPORT

Kuparuk Title V Air Quality Report March 2019

Report Date: 4/3/19
To: NSK Environmental

Hydrogen Sulfide	in Fuel Gas		H2	S	l.	
LIMs#	Sample location	Date	Result	Units	Reference	Notes
S-190304-00307	CPF-1 Frame 6 Fuel Gas H2S	3/4/2019	130	ppm	ASTM D4810-06	Monthly
S-190304-00308	CPF-1 Lift Gas H2S	3/4/2019	130	ppm	ASTM D4810-06	Monthly
S-190304-00309	CPF-2 Fuel Gas H2S	3/4/2019	100	ppm	ASTM D4810-06	Monthly
S-190302-00289	CPF-3 Fuel Gas H2S	3/2/2019	210	ppm	ASTM D4810-06	Monthly
S-190302-00287	STP DA Off-gas H2S	3/2/2019	0	ppm	ASTM D4810-06	Monthly
S-190302-00288	STP Fuel Gas H2S	3/2/2019	220	ppm	ASTM D4810-06	Monthly

ULSD Impor	ted from NOSI		Sulfur	Content	
LIMs#	Sample location	Date	Result	Units	Reference Notes
Multiple	ULSD Imported Product from NOSI	3/17/2019	< 3	ppm	ASTM 7039-07 or ASTM D2622-10 Highest value recorded for month
			2 11		

Kuparuk LEP LiMs#	Sample location	Date	Sulfui Result	Content Units	Reference	Notes
Multiple	KUTP Tank 501 Low End Point Diesel	3/4/2019	1109.7 0.11	ppm Weight %	ASTM 7039-07 or ASTM D2622-10	Highest value recorded for month

CPF2 Tank 4201 LIMs# Sample location	Date	Sulfur Result	Content Units	Reference	Notes
S-190304-00125 CPF2 T-4201 Monthly Diesel	3/3/2019	< 3	ppm	ASTM 7039-07 or ASTM D2622-10	Monthly

Note; NA- Not analyzed

Contact NSK Environmental group for copies of this report

Air Quality Operating Permit No. AQ0267TVP01, Rev. 2 (issued August 8, 2007)

Attachment 2

Hours of Operation, Fuel Type, Fuel Consumption and Applicable Operating Parameters by Month

First Quarter 2019 Operating Report

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ConocoPhillips Alaska, Inc. CPF1 Monthly Facility Operating Report CPF1 Title V Permit # 267TVP01 January 2019

No.	Tag No.	Rating/Service	Vendor/Model	Fuel Gas (hrs)	FuelUsed (MMSCF)	Diesel (hrs)	Diesel (Gal)	YTD Diesel (Ns)	12 Month Diesel (hrs)		12 Mosti non-Emerg (hrs)	Entery (hrs)	12 Monih Emerg (hrs)
Gro	up I - Gas T	urbines											
1	C-2101-A	16.3 MHP/Gas Lift Compressor	GE/Frame 3-K	744,0	109,0								
2	C-2101-B	16.3 MHP/Gas tift Compressor	GE/Frame 3-K	347.7	46.03								
3	C-2101-C	16.3 MHP/Gas Lift Compressor	GE/Frame 3-K	744.0	103.4								
4	G-201-A	4.9 MHP/Electric Generator	Ruston/T85000	744,0	27,50	0.00	0.00	0.00	6.00				
5	G-201-B	4.9 MHP/Electric Generator	Rustory1185000	0.00	0.00	0.00	0.00	0.00	0.00				
6	G-201-C	4.9 MHP/Electric Generator	Ruston/TB5000	744.0	27.85	0.00	0.00	0.00	0.00				
7	G-201-D	4.9 MHP/Electric Generator	Ruston/TB5000	744.0	28.03	0.00	0.00	0.00	6.00				
В	G-3201-E	4.9 MHP/Electric Generator	Ruston/TB5000	555.0	19.73	0.00	0.00	0.00	9.00				
9	G-3201-F	4.9 MHP/Electric Generator	Ruston/TB5000	33.47	1.07	0.00	0.00	0.00	0.00				
10	P-2202-A	5.4 M-P/Water Injection Pump	RustoryTB5400	740.4	32.35								
11	P-2202-B	5,4 MHP/Water Injection Pump	RustaryTB5400	560.3	23.06								
12	P-C107-A	5.4 MHP/Water Injection Pump	Ruston/TB5400	744.0	29,56	0.00	0.00	0.00	0.00				
13	P-CL07-B	5.4 MHP/Water Injection Pump	Ruston/TB5400	692.8	28,50	0.00	0.00	0.00	6.00				
14	G-3203	53.5 MHP/Electric Generator	GE/Frame 6	744.0	250.7								
			up I SUBTOTALS	8137.84	726.7	0.00	0.00	0.00	0.00				
	up II - Fire												
15	H-201	27.8 MMBTU/fvr Emergency Bld Heater	Broach	0.00	0.00	0.00 Max	0.00 Dty Avg	0.00	0.00				
16	G1-14-01	44.4 MMBTU/hr KUTP Hexter	Born	744.00	21.13	= 0.0291 l	IMSCF/hr						
16	G1-14-01	44.4 MMBTU/hr KUTP Heater (PBU FG)	Born	0.00	0.00								
17	H-3204	9.7 MMBTU/hr Fuel Gas Heater	Kvaemer Process	741.00	1.20								
17	H-3204	9,7 MMBTU/hr Fuel Gas Heater (PBU FG)	Kvaerner Process	8.50	0.00								
18	H-102A	4.375 MMBTU/Tr Air Heater	ICE MFG Ltd.	0.00	0.00	0.00	0.00	0.00	0.00				
		Grou	IP II SUBTOTALS	1488.00	22,330	0.00	0.00	0.00	0.00				
Gro	up III - Die	sel Fired Equip											
19	G-701-A	1086 HP Emergency Generator	Waskesha			0.00	0.00	0.80	0.00	0.00	0.00	0.00	0.00
20	G-701-B	1086 HP Emergency Generator	Waukesha			0.00	0.00	0.00	6.00	0.00		0.00	0.00
21,	P-CLO4-ECC	215 HP Water Booster Pump	Detroit Diesel			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22	P-1A02	240 HP Freeze Protect Pump (1A)	Detroit Diesel			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
23	P-1F02	240 HP Freeze Protect Pump (1F)	Detroit Diesel			0.00	0.00	0.00	0.25	0.00	0.25	0.00	0.00
24	P-1G02	240 HP Freeze Protect Pump (1G)	Detroit Diesel			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
25	P-1L02	300 HP Freeze Protect Flamp (1L)	Detroit Diesel			0.00	0.00	0.00	0.00	0.00	0.00	0,00	0.00
26	P-1Q02	300 HP Protect Pump (1Q)	Detroit Diesel			0.65	10.04	0,65	0.65	0.00	0.00	0.65	0.65
27	P-1R02	300 HP Protect Pump (1R)	Detroit Diesel			0.00	0.00	0.00	0.53	0.00	0.53	0.00	0.00
28	P-1Y02	300 HP Protect Pump (1Y)	Detroit Diesel			1.50	23.17	1.50	2.28	0,00	0.00	1.50	2.28
		Group	III SUBTOTALS			2.15	33.22	2.15	3.71	0.00	0.78	2.15	2.93
Gro	up IV - Flan	es.											
29	H-101B	East Flare Tip	McGII	99.08									
36	H-KF01	1-58 VS LP Hare Tip (Smokeless)	Kaldair	644.92									
31	1+KF02	I-87 FS HP Have Tip (Smokeless)	Kaldelr	644.92									
32	H-CR01A	West NG. Flare	McGil	0.00									
33	H-CR01B	East NGL Flare	McGill	744.00									
		Grou	ID IV SUBTOTALS	2132.91	55.099								
Gro	up∀-Incin	erators											
35	H-250	1300 lb/hr Incinerator	Comptro	721.0	2.38								
36	H-347	900 Jlyhr Incinerator	Comptro	0.00	0.00								
		Gro	up V SUBTOTALS	721.00	2.38								
Gra	linG - IV qu	Site Heaters											
37	H-1A01	16,4 MMBTU/hr/Drill Site 1A Heater	Latoka	744.0	11.09								
38	H-1B01	16.4 MMBTU/hr/Drill Site 1B Hoster	Latoka	744.0	11.09								
39	H-2V01	14.5 MMBTU/hr/Drill Site 1C Heater	CE NATCO	744.0	9.82								
40	H-3F01	19,6 MMBTU/hr/Drill Site 10 Heater	CENATO	744.0	13.24								
43	H-1E01	16.4 MM8TU/hr/Drill Site 1E Hexter	Latoka	0.00	0.00								
42	H-1602	30.0 NMBTU/hr/Drill Site 1E Neater	GTS Energy	744.0	1.83								
43	H-1F01	14.9 MMBTU/hr/Drill Site 1F Heater	BSSB	744.0	10.04								
44	H-1G01	14.9 MMBTU/hr/Drill Site 1G Heater	BSSB	744.0	10.04								
45	H-1F-1901	16.4 HMBTU/hr/Drill Site 1H Heater	Latoka	744.0	3.48								
46	H-1301A	36.8 MMBTU/hy/Drill Site 11 Heater A	Petro Chem	744,0									
47	H-1301B	36.8 MMBTU/hr/Drill Ste 13 Heater B	Petro Chem	744.0	7.94								
48	H-1001	21.0 MMBTU/hr/Drill Site 1Q Heater	BS&B	744.0	14.21								
49	H-1R01	17.2 MMBTU/hr/Drill Site 1R Heater	BS88	744.0	11.61								
50	H-1Y01	14.9 HMBTU/hr/Orill Site 1Y Heater	BS&B	0.00	0,00								
202			p VI SUBTOTALS	8928.00	112.6								
			ACILITY TOTALS		920.2		33,22						
		•											

Additional INCINERATOR INFORMATION

H-250 Monthly Solid Waste Throughput (tons): 562 12-months (tons): 576.6 H-347 Monthly Solid Waste Throughput (tons): 0.0 12-months (tons): 0.0 Maximum Monthly Charge Rate (the/hr): 0.00

Based on the information and belief form	ed after reasonable inquiry, I	ertify that the statements and information in and	dattached to this document are true, accurate, and complete.
Date: 2/20/2019	Scott	Fahrney	
Reviewed by: Operations Superintendant	- Printed Name	A.J.	. 1

Operations Superintendent - Signature

Original: Environmental

Generated on 16-FEB-19 10:03

ConocoPhilips Alaska, Inc. CPF1 Monthly Facility Operating Report CPF1 Title V Permit # 267TVP01 February 2019

C-2014	No.	. Tag No.	Rating/Service	Vendar/Model	Fuel Gas (hrs)	Fuel Used (MMSCF)	Diesel (hts)	Diesel (Gal)	YTD Diesel (hrs)	12 Month Diesel (brs)	Non- Emerg (hrs)	12 Month non-Emery (Nrs)	Emery (h:s)	12 Month Emerg (hrs)
2 C-2010-1 16 J. HPMPS LIK Compensor														
C G-2014 C S P P P S P C C C C C C C C C														
1			· · · · · · · · · · · · · · · · · · ·											
1							0.00	0.00	0.00	0.00				
6 2012 1 4 1 1 1 1 1 1 1 1	-							2.00						
1	-													
1	-		•											
1														
10 P.2003-A 54 HeyPyWater lightchin Pump RationyTipSign 641 2200 2204 241 24				-										
1	-				523.2	22.47								
12 P.C.D.P. 5.4 MeyNater Section Runp Matern 15.5 13.2 1.2														
1				•			9.00	0.00	0.00	0.00				
Comput 1 - Fee Heaters Comput 1 - Fee Fee Fee Comput 1 - Fee Fee							6.00	0.00	0.00	0.00				
1	14	G-3203	53.5 Mr9/Electric Generator	GE/Frame 6	672.0	212.6								
1. 1. 1. 1. 1. 1. 1. 1.			Gro	up I SUBTOTALS	7278.91	663.3	0.00	0.00	0.00	0.00				
	Gro	up II - Fire												
	15	H-201	27.6 NVBTU/for Emergency Bld Heater	Broach	0.00	0.00	0.00	0.00	0.00	0.00				
	16	C1.14.01	ALA MARITH Now PUTTS Markey	Box n	672.00	19.89	Max	Dly Avg						
17 H-3201 97 / MBTU/Fr Fad Gis Header (Br Carlo Member Process 0.00 0							= 0.0288	#MSCF/hr						
17 H-320 37 NPSTTUIP Food Gas Heaker (FRU FG) Kinemar Process 1000 0.00						****								
18														
Company Comp														
	18	H-102A												
10 10 10 10 10 10 10 10	_			ID 11 SUBTOTALS	1311.00	19.890	0.00	0.00	0.00	0.00				
10 10 10 10 10 10 10 10				Martina			0.00	0.00	0.00	0.00	0.00	0.00		0.00
Part														500
P-IAQ2														0.00
23 P. P. 11														0.00
PifGQ 240 PP Freeze Protect Pump (10) Datast Disard														0.00
1														0.00
1												*****		6.00
P P REQ	-													0.65
23														0.00
Crow IT Substitution Nation N														2.28
				III SUBTOTALS			0.00	0.00	2.15	3.71	0.00	0.78	0.00	2.93
1	Gro	up IV - Flan	· ·											
H K FO2				McGII	0.00									
1	30	H-KF01	I-58 VS LP Flare Tip (Smokeless)	Kaldair	672.00									
33 H-CR010 East NSL Reve M-cSII 672.00 49.035 F250	31	H-KF02	I-87 FS HP Flare Tip (Smokeless)	Kaldair	672.00									
Complete Complete	32	H-CR01A	West NG, Flare	McGII	0.00									
	33	H-CR01B	East NGL Flave	McGill	672.00									
35 H-250 1000 lk/hr Incinerator Compton 0.000 0.000			Grou	p IV SUBTOTALS	2016.00	48.035								
	Gro	-	en-tors											
Group VI - Drill Site Heaters Caston Casto	35		· ·	•										
State Hand	36	H-347												
37				up V SUBTOTALS	608.00	2.01								
18		-												
39	-													
40 H-9701 19.6 MHBTU/Hy/Drill Site ID Hower CE NATCO 672.0 11.96														
H H H H H H H H H H														
42														
43														
44														
45 H-HF-1901 16-4 M-HBTU/hr/Drill Site H-Hexter Labcka 672.0 3.01 46 H-1301A 36.8 M-HBTU/hr/Drill Site II Hexter A Patro Chom 671.0 8.11 47 H-1301B 36.8 M-HBTU/hr/Drill Site IJ Hexter B Petro Chom 671.0 7.76 48 H-1901 21.0 M-HBTU/hr/Drill Site IJ Hexter B BS&B 672.0 12.04 49 H-1801 17-2 M-HBTU/hr/Drill Site II Hexter BSSB 672.0 10.48 49 H-1801 17-2 M-HBTU/hr/Drill Site II Hexter BSSB 672.0 10.48 50 H-1901 19-4 M-HTU/hr/Drill Site II Hexter BSSB 0000 000		*****												
46 H-1,01A 36.8 MHST U/hr//hril Ste 11 Hester A Patro Chem 671.0 8.11 47 H-1,01B 36.8 MHST U/hr//hril Ste 11 Hester B Petro Chem 671.0 7.78 48 H-1,02L 21.0 MHST U/hr//hril Ste 1Q Hester BSSB 672.0 12.0 49 H-1,80L 17.2 MHST U/hr//hril Ste 1R Haster 6SSB 672.0 10.48 50 H-1,90L 14.9 MHST U/hr//hril Ste 17 Hester BSSB 000 000 Group VI SUBTOTALS 606200 10.18														
47 H.DOB 368 MHBTU/hr/Drill Site IJ Hester B Petro Chem 671.0 7.76 48 H-IQS 21.0 MHBTU/hr/Drill Site IQ Hester BSSB 672.0 12.84 49 H-IQS 17.2 MHBTU/hr/Drill Site IR Hazer BSSB 672.0 10.48 49 H-IQS 17.2 MHBTU/hr/Drill Site IR Hazer BSSB 672.0 10.48 40 H-IQS 17.2 MHBTU/hr/Drill Site IV Hoster BSSB 670.0 10.48 41 H-IQS 17.2 MHBTU/hr/Drill Site IV Hoster BSSB 670.0 10.48 42 H-IQS 17.2 MHBTU/hr/Drill Site IV Hoster BSSB 670.0 10.48 43 H-IQS 17.2 MHBTU/hr/Drill Site IV Hoster BSSB 670.0 10.48														
48 H-1Q91 21.0 MHBTU/HryToriii Ste 1Q Heater BSSB 672.0 12.84 49 H-1R01 172 MHBTU/HryToriii Ste 1R Haater 653B 672.0 10.48 50 H-1Y01 149 MHBTU/HryToriii Ste 1Y Haater 653B 052.0 0.00 Group VI SUBTOTALS 6062.00 10.18														
49 1H-1ROS 17.2 M-18TU/M-7/CHI Site IR Hazker 6SSB 672.0 10.48 50 H-1YOS 14.9 M-18TU/M-7/CHI Site IY Hoster BSSB 0.00 0.00 Group VI SUBTOTALS 8062.00 101.8														
50 H-1Y01 14-9 F-2-ISTU/RY/CHI Ste IY Hooker BSSB 0.00 0.00 Group VI SUBTOTALS 6062:00 101.8														
Group VI 5UBTOTALS 8052.00 101.8														
FAMILIES I COMED 5000 000				ACILITY TOTALS		835.0		0.00						

Additional INCINERATOR INFORMATION
H-250 Horithy Solid Waste Throughput (tons): 39-5 12-months (tons): 574.1
H-347 Honthly Solid Waste Throughput (tons): 0.0 12-months (tons): 0.0
Hadmurn Morthly Charge Rate (lbs/hr): 0.00

Based on the information and belief formed aff	cer reasonable inquiry, 1 certify that the statements and information in and attached to) this document are true, accurate, and complete.
Date: 3//	9/19	
Reviewed by: Operations Superintendent - Print	ed Name Scott Fahrney	
Operations Superintendent - Signature Orliginal: Environmental	Scott Fahrney	Generated on 13-HAR-19 07:05

- Page 1 of 1 -

CPF1 Title V Permit # 2677VP01 March 2019

			•										
No	. Tag No.	Stating/Service	Vendor/Model		Fuo Vsad (HMSCP)	Diesel (fun)	Diesei (Gai)	YTD Ditsel (has)	ENDAMAS	Non- Eatery (ins)	ilinoN SI grainti-non (ent)	Emely (lus)	12 Month Enjarg (hrs)
Gr	ougi I - Gas .	Turbines											
1	C-2101-A	15.3 PHP/Gas Uft Compressor	GE/Freme 3-K	412.8	59.35								
2	C-2101-B	16-3 MHV/Gas UN Compressor	GE/Frante 3-K	734.0	93.44								
3	C-Hot-C	16.3 FFP/Gas Lift Compressor	GE/Frame 3-K	731.5	95,12								
4	G-201-A	4.9 N IT /Bethic Generator	Ruston/TB5000	743.0	25.23	0.00	0.00	9.00	0.00				
5	G-201-11	49 NAV Bectric Generator	RESTORTESCOO	145.7	5,17	0.00	0,00	0,00	0,00				
6	G-ZH-C	4.9 NPP/Electric Generator	Rustory/TB5000	743,0	26,62	0,00	0,00	0,00	0,00				
7	G-201-D	4.9 NPP/Boctric Generator	Rustor/TB5000	692.5	24.98	0.00	0.00	0.00	0,00				
8	G-3201-E	4.9 MHYElectric Generator	Ruston/105000	0.00	0.00	0.00	0.00	0.00	0.03				
9	G-3201-F	4.9 PANYHectric Generator	Rustor/TB5000	9625	3.62	0.03	0.00	0.00	0.00				
to	P-2202-A	5.4 NHP/Water Injection Pump	Pustor/TB5500	470.1	18.18								
11	P-2202-0	5.4 MB/Water Injection Pump	RustocyTBS400	504.2	21.39								
12	P-CLO7-A	5.4 HHP/AVater Injection Pump	Ristor/TD5400	743.0	29.61	G£O	0.00	0.00	0.00				
13	P-CLO7-B	5.4 MP/Water Injection Pump	Roston/TB5400	7430	31.02	0.00	0.00	0.00	0.00				
14	G-3203	53.5 NHP/Bectric Generator	Œ/Franso 6	743.0	230.7								
			Group I SUDTOTALS	7532.07	664.4	0.00	0.03	0.00	0.00				
Gre	up II - fiku	l Heaters											
15	H-201	27.8 Nº 19TU/hr Emergercy Bld Hexte		5,00	0.00	9.00 Mart	0.00 Diy Avg	0.00	0.00				
16	G1-14-01	44.4 NASSTUJIV KUTP Heater	Born	722.50	19.77	= 0,0284 t	MSCF/IV						
16	G1-14-01	44.4 MANDTU/hr KUTP Hester (PBU F	G) Born	â.DO	0.00								
17	H-3204	9.7 MADTUAY Fixe Ges Heater	Kværner Process	747.25	1.14								
17	H-3204	9.7 I L'HUTURY Fluid Gas Heater (PBU	-	0.00	0.00								
10	11-107A	4.375 Probitufie Air Hestor	ICE FIFG Ltd.	G(X)	0.00	0.00	6,00	0.00	0.00				
			roup II SUBTOTALS	1464,75	20.910	0.60	6,00	0.00	9,00				
		sel Fired Equip											
	G-701-A	1866 HP Emergency Generator	Waskesha			0.00	0.00	0.00	0.00	0,03	0.00	0.00	0.00
	G-701-B	1085 HP Emergancy Generator	Vankesha			0.00	0.00	0.00	0.00	0,00	0.00	0.00	0,00
21		215 MP Water Booster Pump	Detroit Olesel			0.00	0.00	0.00	6,00	0.00	0.00	0.00	0.00
22	P-1A02	2101P Freeze Pictect Famp (IA)	Delroit Diesel			9,00	0.00	0.00	9.00	0.03	0.00	0.00	0.00
23	P-1F02	240 HP Freeza Protect Pump (1F)	Datroit Dieset			0.00	0.00	0.00	8.25	8.00	0.25	6.00	0.00
21	P-1902	240 IP Freeze Frotect Pump (IG)	Detroit Diesel			6.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
25	P-BEDZ	300 HP Frenze Protect Pump (1L)	Detroit Diesis			0.00	0.00	0,00	0.00	6.00	0.00	0.00	0,00
25	P-1Q02	300 FP Protect Pump (EQ)	Detroit Diesel			6.00	0,00	0,65	0,66	9.00	0.00	0,00	0.69
27	P.IRO2	300 HP Protect Pump (IR)	Detroit Clessel			0.00	0.00	0.00	0.53	0.00	0.53	0.00	0.03
: 26	\$-1Y02	300 FP Protect Pump (LY)	Detroit Diesel			0.00	0.00	1.50	2.28	0.00	0,00	0.00	2.70
Øm	up IV - Flan		ove HILSUBTOTALS			0.00	0.60	2.15	3.71	0.00	0.78	0.00	2,93
20	H-joto	East Flare Tip	McGIII	6,00									
	H-KF61	I-58 VS LP Flare Tip (Smokeless)	Kaldair	743.00									
31	H-K/R02	1-87 PS HP Flare Tip (Smokeless)	Kaldalı	743.00									
32	HERDIA	West NGL Flare	14cGi)	0.00									
	H-CROID	fast NGL Flare	MeGil	743.00									
_	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		TO UP TO SUBTOTALS	2229.00	49.330								
Gre	up V - Inda												
		1300 lb/hr Incinerator	Comptro	592.0	1.95								
	11:317	900 lb/Fr Incinerator	Comptro	0.06	0.00								
			HOUD V SUBTOTALS	592.00	1.95								
Gro	up VI - DriV s	ike Heaters											
	H-1AOL	16.4 F248TU/hr/Drill Site IA Hexter	Lutcku	743.0	11.07								
.38	H-1801	16.4 NP-WTU/Iv/Drill Site 18 Heater	Latoka	743,0	11.07								
39	H-2V01	14.5 MARTU/hr/fixill Site IC Hexter	CENATCO	7410	9.81								
40	H-3F01	19.6 PANTU/hr/Orlif Site 10 Hester	CE NATCO	743,0	13.23								
41	H-1601	15.4 PMBTU/N/Orlf Ste 15 Hester	Latoka	0.00	0.00								
42	11-1902	30.0 FR45TU/Fr/Orlf Sile 18 Heator	GTS Energy	743.0	0.74								
	H-1FDL	14.9 FR/BTU/ry/Drill Site IF Howler	BSSB	743.0	10:03								
44	H-1581	14.9 MABTU/r/JOHN Sto 1G Heeler	BSAB	743.0	10.03								
45	H-1F-1901	16.4 KP4TTU/hy/Drill Site 1H Heater	Laloka	743.0	3.53								
45	H-1X01A	35.8 MMOTU/ry/Orill Site 13 Heater A	Petro Chem	739.4	8.86								
47	H-13018	36.0 PUVDTU/hr/Drill Site 13 Heater B	Petro Chem	739.5	8.55								
43	H-1Q01	STO WASTANASICES ENV TO HEATER	asea	7-13.0	14.19								
	H-1RG1	17.2 (VARITLIJhr/Drill Site IR Heater	B58B	743.0	11.59								
50	H-1Y01	14.9 M-HUTU/ht/Oxiil Site 1Y Heater	8588	6.00	0.00								
		Gi	oup VI SUBTOTALS	6930363	112.7								
			FACILITY TOTALS		849.3		0.00						
TOR THE	ORMATION	1											

Additional INCLNEIATOR INFORMATION H-250 Florithy Solid Weste Throughput (lore): 41.0 12-months (lore): 570.5 H-347 Monthly Solid Weste Throughput (lore): 0.0 12-months (lore): 0.0 Hadmann Hanthly Clauge (late (begin): 0.00

Based on the Information and belief formed after reasonable	Inquiry, I certify that the statements and information in and alteched to this docume	ent are true, occurate, and complete.
Dista:	04/18/19	
Reviewed by: Operations Superintentials - Arinted Name	Scott Fahrney	
Operations Superintendent - Signature Original: Environmental	Acold Fahrney	Generated on 15-APR-19 08;59

- Page 1 of 1 -

4/15/2019 9/59/31 AM

Kuparuk River Unit Central Processing Facility 1 (CPF-1)

Waste Water Treatment Plant

Air Quality Operating Permit Number 267TVP01

Facility Operating Report

JAN-2019

Group No.	Tag No.	Rating/Duty	Monthly Max Charge Ib/hr	Run Time (hrs)	Fuel Used (MMCF)	Fuel Used (tons)	Estimated Waste (Cubic Yards)	Estimated Waste (Tons)
Group V	H-250	1350 Lb/Hr Waste Incinerator Source 35		721	2.3793	58.3	540	56.3
Incinerators	Н-347	900 Lb/Hr Waste Incherator Source 36	0 (Emit 765/hr)	0	0	0	0	0
	000000000000000000000000000000000000000		Total	Monthly:	2.3793	58.3	540	56.3

H2S Concentration (ppm)

Auxiliary Fuel

Mean

Same as CPF1 Fuel Gas

Reviewed by:

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Return to Kuparuk Environmental Complance - NSK 61

SCADA report generated on Friday, 01-FEB-2019 08:14:34

Send inquiries regarding this report to: n1728@conocoph®ps.com

ConocoPhiEps Alaska, Inc., WWTP, Kuparuk, Alaska

[*]

Kuparuk River Unit Central Processing Facility 1 (CPF-1)

Waste Water Treatment Plant

Air Quality Operating Permit Number 267TVP01

Facility Operating Report

FEB-2019

Group No.	Tag No.	Rating/Duty	Monthly Max Charge Ib/hr	Run Time (hrs)	Fuel Used (MMCF)	Fuel Used (tons)	Estimated Waste (Cubic Yards)	Estimated Waste (Tons)
Group V	H-250	1350 Lb/Hr Waste Incinerator Source 35		608	2.0064	49.2	379.2	39.5
Incinerators	H-347	900 Lb/Hr Waste Incinerator Source 36	0 (Emit 765/hr)	0	0	0	0	0
		Aur.	Total	Monthly:	2.0064	49.2	379.2	39.5

H2S Concentration (ppm)

Auxiliary Fuel

Mean

Same as CPF1 Fuel Gas

Reviewed by:

Return to Kuparuk Environmental Compliance - NSK 61

SCADA report generated on Friday, 01-MAR-2019 07:23:04

ConocoPhilips Alaska, Inc., WWTP, Kuparuk, Alaska

Send inquiries regarding this report to: n1728@conocoph@ps.com

[*]

Kuparuk River Unit Central Processing Facility 1 (CPF-1)

Waste Water Treatment Plant

Air Quality Operating Permit Number 267TVP01

Facility Operating Report

MAR-2019

Group No.	Tag No.	Rating/Duty	Monthly Max Charge lb/hr	Run Time (hrs)	Fuel Used (MMCF)	Fuel Used (tons)	Estimated Waste (Cubic Yards)	Estimated Waste (Tons)
Group V	H-250	1350 Lb/Hr Waste Incinerator Source 35		592	1.9536	47.9	393.6	41
Incinerators	H-347	900 Lb/Hr Waste Incinerator Source 36	0 ([m]t 765/hr)	0	0	0	0	0
	-		Total	Monthly:	1.9536	47.9	393.6	41

H2S Concentration (ppm)

Auxiliary Fuel

Mean

Same as CPF1 Fuel Gas

Reviewed by:

Return to Kuparuk Environmental Complance - NSK 61

SCADA report generated on Monday, 01-APR-2019 07:04:13

ConocoPhiEps Alaska, Inc., WWTP, Kuparuk, Alaska

[*]

Send inquiries regarding this report to: n1728@conocoph@ps.com

C:\Userskcourse\ConocoPhilips\08 Environmental - 8.2d Air - Emission Tracking, Monitoring and Modeling\8.2d.1 1E-1J Tracking (HE13)\2019\REV 2014_2019 Rolling_Blank.xism

Report Generated: 4/19/2019

Air Quality Operating Permit No. AQ0267TVP01, Rev. 2 (Conditions 10.5 & 10.6) Well Servicing Equipment Diesel Fuel Use Drill Sites (E and 1J (Combined) ConocoPhillips Alaska, Inc.

> 1-Jan-19 31-Jan-19 From: Thru:

Emission Unit Description	Daily Maximum for the Short Term Limit Period (gal/day) (gal/day)	Short Term Limit (gal/day) Ifrom Condition 171	Total per Month (gal)	Rolling 12-month Total (gallyear)	Rolling 12-month Operation Limit (gal/year)
				1 f F1	[from Condition 16]
'eli Service Heaters	ř.	000	29,242	160,411	200,000
Well Service IC Engines	Γ	۲,/ ۵۵	2,170	36.181	177,800
Frac Unit IC Engines	ō	20,100	0	0	50.000

Note: The limits shown in this report were "rescinded" when Minor Permit AQ0267MSS06 was issued on March 28, 2014. However, the limits still apply until the ADEC issues a renewed or revised CPF-1 operaing permit that incorporates the terms and provisions of Minor Permit AQ0267MSS06.

Approved by:

Based on information and belief formed after reasonable inquiry, I certify that the statements and information in and-attached to this document ape tyle, accurate, and complete.

Air Quality Operating Permit No. AQ0267TVP01, Rev. 2 (Conditions 10.5 & 10.6) Drill Sites 1E and 1J (Combined) ConocoPhillips Alaska, Inc.

Well Servicing Equipment Diesel Fuel Use

28-Feb-19 1-Feb-19 From:

		***************************************	-	·	THE PROPERTY OF THE PROPERTY O	
Unit ID No.	Emission Unit Description	Daily Maximum for the Period (gal/day)	Short Term Limit (gal/day) [from Condition 17]	Total per Month (gal)	Rolling 12-month Total (gal/year)	Rolling 12-month Operation Limit (gal/year) (from Condition 16)
61	Well Service Heaters	7.4.4		28,032	151,019	200.000
62	Well Service IC Engines	33	2,700	3,085	36.657	177.800
63	Frac Unit IC Engines	0	20,100	0	0	50.000
		**************************************	**************************************	**************************************	***************************************	

Note: The limits shown in this report were "rescinded" when Minor Permit AQ0267MSS06 was issued on March 28, 2014. However, the limits still apply until the ADEC issues a renewed or revised CPF-1 operaing permit that incorporates the terms and provisions of Minor Permit AQ0267MSS06.

Approved by:

Based on information and belief formed after reasonable inquiry. I certify that the statements and information in and attached to this docuprent are true, accurate, and complete.

Reviewed by:

C:Users)ccourse)CoñocoPhillips/08 Environmental - 8.2d Air - Emission Tracking, Monitoring and Modeling/8,2d.1 1E-1J Tracking (HE13)2019/REV 2014_2019 Rolling_Blank.xism

C./Users/course/ConocoPhilips/08 Environmental - 8.2d Air - Errission Tracking, Monitoring and Modeling/8.2d.1 1E-1J Tracking (HE13)/2019/REV 2014_2019 Rolling_Blank.xism

Report Generated; 4/19/2019

Air Quality Operating Permit No. AQ0267TVP01, Rev. 2 (Conditions 10.5 & 10.6) Drill Sites 1E and 1J (Combined) Well Servicing Equipment Diesel Fuel Use ConocoPhillips Alaska, Inc.

> 31-Mar-19 1-Mar-19 Date From:

r	·~	~~~		~,
Rolling 12-month Operation Limit (gallyear) Ifrom Condition 161	200,000	177.800	50,000	
Rolling 12-month Total (gal/year)	175,106	35.726	0	***************************************
Total per Month (gal)	36,864	2,016	0	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
Short Term Limit (gal/day) [from Condition 17]	100	7,700	20,100	***************************************
Daily Maximum for the Period (gal/day)	5 6 5	002	0	***************************************
Emission Unit Description	Well Service Heaters	Well Service IC Engines	Frac Unit IC Engines	
Unit ID No.	61	62	63	

Note: The limits shown in this report were "rescinded" when Minor Permit AQ0267MSS06 was issued on March 28, 2014. However, the limits still apply until the ADEC issues a renewed or revised CPF-1 operaing permit that incorporates the terms and provisions of Minor Permit AQ0267MSS06.

Approved by:

Based on information and belief formed after reasonable inquiry. I certify that the statements and information in and attached to this documery are true, accurate, and complete.

Reviewed by:

ConocoPhillips Alaska, Inc. Air Quality Permit No AQ0267TVP01, Rev. 2 Drill Site 1E and 1J Drilling Rig Fuel Use Permit Conditions 10.5 and 10.6

				•				
04400	C	c	0			Generatoralas (新国家 Mabors) CDR3	Generatoria de 32	60
	>	>	0		i	Nabors 7ES	Generator	60
	***************************************						Rig Camp Engines	EU-IB
			o	4.5 MMBtu/hr		Nordic 1 Heater (1)	Heaters	59
			0	80 HP		as Nordic:1:Boiler (2)	Boilers 12 3 3 3	59
1,4/6,000	0,83	c	0	2.42 MMBtu/hr	Tioga	Nabors CDR3 Heaters (2)	Heaters	-59
7	0)	0	100 HP	Mohawk	Nabors CDR3 Boilers (2)	- Bollers Para Sal	59
			0			Nabors 7ES Heaters (2)	Heaters	59
			O	100 HP	Kewanee	Boilers和加州 Boilers (2)	Boilers海岸市	59
THE PERSON NAMED IN COLUMN NAM							Boilers and Heaters	EU-ID
			0	610 HP	#4 Cat C-15		Generator	58
		c	0	369 HP	#3 Cat C-9	建硫基	Generator: San	58
24 month period		>	0	369 HP	#2 Cat C-9		Generator	58
2006 is the end of the			0	610 HP	#1 Cat C-15	ः *	Generator ಾ	58
thereafter) March 26,							Nabors CDR3	
then 316,200	974	c	0	700 BHP	#2 Cat 3412		Generator	
(for 1st 24 months,		Þ	0	700 BHP	#1 Cat 3412	Rrimary/Reserve	Generatoru tili a li	58
9,108,000							Nordic 1	
			0	817 BHP	#3 Cat 3412	Generaton⊭ம்வ≇ஈ⊡Primary/Reserve	Generatorie	58
		0	0	1101 Kw	#2 Cat 3512B	Primary/Reserve	Generator	58
			0	1101 Kw	#1 Cat 3512B	Generator#★ : A Sin Brimary/Reserve	Generator, Sec.	58
- (3 cm) .)	1 , 5 , 5 , 5 , 7 , 7 , 7 , 7		,	C	-	-	Nabors 7ES	0
Limit (gal/yr)	Total gal/vr)	Rig Total for Month Total gal/vr) Limit (gal/vr)	Monthly Total	Rating	Description	Equipment Use	Type	
Operational	(Rolling Yearly						Equipment	
12 Month	All Rigs Total							
			- Trinscontinuos de la companion de la compani	N/A	N/A	N/A	1/31/2019	
				N/A	N/A	NA	1/1/2019	
				MOLUIC	Napola CDIVO	TAGOOD LEO	A125	

Greg Hobbs WELLS EXCELL

-BNCE COMPL & REGULATORY ENGR

Reset to zero on April 1,2006 due to March 24, 2006 permit revision

Date

4/23/2019

EU-ID 58 Max Daily Limit:

5,170 gallons

(applies after the first 24-months of drilling only)

ConocoPhilips Alaska, Inc. Air Quality Permit No AQ0267TVP01, Rev. 2 Drill Site 1E and 1J Drilling Rig Fuel Use Permit Conditions 10.5 and 10.6

0
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0
0
4,924
5,170
0
0
0
2,762
٥
2,763
0
0
0
Monthly Fotal
1

A COMPT & REGULATORY ENGR

Reset to zero on April 1,2006 due to March 24, 2006 permit revision

Date

EU-ID 58 Max Daily Limit:

5,170 gallons

(applies after the first 24-months of drilling only)

WELLS EXCELLENCE COMPL & REGULATORY ENGR

Reset to zero on April 1,2006 due to March 24, 2006 permit revision

Date

4/23/2019

EU-ID 58 Max Daily Limit:

5,170 gallons

(applies after the first 24-months of drilling only)

ConocoPhillips Alaska, Inc. Air Quality Permit No AQ0267TVP01, Rev. 2 Drill Site 1E and 1J Drilling Rig Fuel Use Permit Conditions 10.5 and 10.6

60		١	EU-ID F		59	59	59	59	59	EO-ID	58 	58	58	58		58	58	L	58	58	58	1			٠		_	_	_
Generator	CCICIONS	Generator	Rig Camp Engines	Heaters	Boilers	Heaters	Boilers :	Heaters	Boilers	Boilers and Heaters	Generator	Generator	Generator	Generator :	Nabors CDR3	Generator	Generator:	Nordic 1	Generator	Generator	Generator	l ype Nabors 7ES	Equipment				3/31/2019	3/1/2019	
Nabors CDR3	1400019 7 100	Nahors 7ES		Nordic 1 Heater (1)	HaseNordicateBoiler (2)	Nabors CDR3 Heaters (2)	Nabors ©DR3 Bollers (2)	Nabors 7ES Heaters (2)	⊪Nabors 7ES Bollers (2)		Primary/Reserve	⊪ ∴ : Primary/Reserve	Primary/Reserve	Primary/Reserve		Primary/Reserve	Primary/Reserve		Primary/Reserve	Primary/Reserve	Primary/Reserve	Equipment Use					N/A	N/A	
						Tioga	Mohawk		Kewanee		#4 Cat C-15	#3 Cat C-9	#2 Cat C-9	#1 Cat C-15		#2 Cat 3412	#1 Cat 3412		#3 Cat 3412	#2 Cat 3512B	#1 Cat 3512B	Description			1		N/A	N/A	
				4.5 MMBtu/hr	80 HP	2.42 MMBtu/hr	100 HP		100 HP	,	610 HP	369 HP	369 HP	610 HP		700 BHP	700 BHP		817 BHP	1101 Kw	1101 Kw	Rating					N/A	N/A	
0	-	0		o	0	0	0	0	0	000000000000000000000000000000000000000	0	0	0	0		0	0		0	0	0	Monthly Total							
	>		al acceptance of the second se				<u></u>						I			c	Þ			0		Rig Total for Month Total gal/yr) Limit (gal/yr)				- PARAMETER PROPERTY AND PROPER			
	>			-		620,71	7				6,499								Total gal/yr)	(Rolling Yearly	All Rigs Total								
00440	D 7 7 C C					1,4/6,000	2000		NOTATION TO A STATE OF THE STAT	NATURAL DESCRIPTION OF THE PROPERTY.	3,159,000 (for 1st 24 months, then 316,200 thereafter) March 26, 2006 is the end of the 24 month period								Limit (gal/yr)	Operational	12 Month	<u>y-</u> -y	-						

Air Quality Operating Permit No. AQ0267TVP01, Rev. 2 (issued August 8, 2007)

Attachment 3

Monthly and 12-Month Rolling Total Actual Emission Summary

First Quarter 2019 Operating Report

Page 13

ConocoPhillips Alaska, Inc. **Total Monthly Actual Emissions Summary** Kuparuk Central Production Facility No. 1

2019

Version 2019.5

nn i i	TT *4 *		0 12
Turbines -	Units	i - 3 and	8 - I.)

Pollutant	Jan (tons)	Feb (tons)	Mar (tons)	Apr (tons)	May (tons)	Jun (tons)	Jul (tons)	Aug (tons)	Sep (tons)	Oct (tons)	Nov (tons)	Dec (tons)	Year to Date Total (tons)
NO _x	69.7	66.9	62.9										199.5
co	17.1	16.3	15.3										48.8
VOC	0.44	0.42	0.39										1.2
SO_2	3.7	3.7	3.3										10.8
PM ₁₀	2.9	2.7	2.6										8.2

Turbines - Units 1 - 3

	Pollutant	Jan (tons)	Feb (tons)	Mar (tons)	Apr (tons)	May (tons)	Jun (tons)	Jul (tons)	Aug (tons)	Sep (tons)	Oct (tons)	Nov (tons)	Dec (tons)	Year to Date Total (tons)
N	JO _x	46.7	48.4	44.8										140.0

Heaters - Units 16, 37 - 41, 43 - 45, and 48 - 50

Pollutant	Jan (tons)	Feb (tons)	Mar (tons)	Apr (tons)	May (tons)	Jun (tons)	Jul (tons)	Aug (tons)	Sep (tons)	Oct (tons)	Nov (tons)	Dec (tons)	Year to Date Total (tons)
NO_x	6.8	6.1	6.7										19.6
co	1.2	1.1	1.2										3.5
SO_2	1.1	1.0	1.1										3.2
PM_{10}	0.17	0.15	0.16										0.48

Incinerator - Unit 36

Pollutant	Jan (tons)	Feb (tons)	Mar (tons)	Apr (tons)	May (tons)	Jun (tons)	Jul (tons)	Aug (tons)	Sep (tons)	Oct (tons)	Nov (tons)	Dec (tons)	Year to Date Total (tons)
NO _x	0.0	0.0	0.0										0.0
co	0.0	0.0	0.0										0.0
VOC	0.00	0.00	0.00										0.0
SO_2	0.00	0.00	0.00										0.0
PM ₁₀	0.0	0.0	0.0										0.0

									Permit Limit
H ₂ S ppmv in Lift Gas Tie Line	113.0	118.6	111.7		1				200 ppmv (24-hr avg)
H ₂ S ppmv in Flared Gas	133.7	103.8	109.5		8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8				
Sulfur Content in LEPD (wt%)	0.107	0.109	0.111						0.5 wt%

Total Monthly Actual SO₂ Emissions Summary

$Kuparuk\ DS1E/IJ\ Drill\ Rig\ Heaters/Boilers,\ Production\ Heaters,\ Portable\ Flare$ 2019

Version 2019.5

Unit	Jan (tons)	Feb (tons)	Mar (tons)	Apr (tons)	May (tons)	Jun (tons)	Jul (tons)	Aug (tons)	Sep (tons)	Oct (tons)	Nov (tons)	Dec (tons)	Year to Date Total (tons)
EU ID 59 Drill Rig Heaters & Boilers	0.0	0.07	0.0										0.07
EU IDs 42, 46, & 47 Production Heaters	0.17	0.16	0.17										0.51
EU ID 34 Portable Flare	0.00	0.00	0.00										0.00

DS1E & DS1J Emission Units

H ₂ S ppmv in Lift Gas Tie Line	113.0	118.6	111.7					
Sulfur Content in ULSD (wt%)	0.000300	0.000300	0.000300					
Sulfur Content in LEPD (wt%)	0.107	0.109	0.111					

12-Month Running Total Actual Emissions Summary

Kuparuk Central Production Facility No. 1 2019

Turbines - Units 1 - 3 and 8 - 13

Version 2019.5

	12-Month Period Ending:													
Pollutant	Jan (tons)	Feb (tons)	Mar (tons)	Apr (tons)	May (tons)	Jun (tons)	Jul (tons)	Aug (tons)	Sep (tons)	Oct (tons)	Nov (tons)	Dec (tons)	Permit Limit (consecutive 12-month)	
NO_z	891.7	888.4	871.8										2,046 tons	
co	218.0	217.2	213.2										612 tons	
VOC	5.6	5.6	5.5										7.5 tons	
SO ₂	47.6	48.1	46.8										109 tons	
PM_{10}	36.5	36.4	35.7										50 tons	

Turbines - Units 1 - 3

					12-1	Month Peri	od Ending						
Pollutant	Jan (tons)	Feb (tons)	Mar (tons)	Apr (tons)	May (tons)	Jun (tons)	Jul (tons)	Aug (tons)	Sep (tons)	Oct (tons)	Nov (tons)	Dec (tons)	Permit Limit (consecutive 12-month)
NO_x	628.3	625.6	613.4										824 tons

Heaters - Units 16, 37 - 41, 43 - 45, and 48 - 50

r	12-Month Period Ending:													
Pollutant	Jan (tons)	Feb (tons)	Mar (tons)	Apr (tons)	May (tons)	Jun (tons)	Jul (tons)	Aug (tons)	Sep (tons)	Oct (tons)	Nov (tons)	Dec (tons)	Permit Limit (consecutive 12-m onth)	
NO_x	77.1	77.3	77.3										124 tons	
co	13.9	13.9	13.9										44 tons	
SO ₂	12.5	12.7	12.6										33 tons	
PM_{10}	1.9	1.9	1.9										14 tons	

Incinerator - Unit 36

					12-N	Month Peri	od Ending	:					
Pollutant	Jan (tons)	Feb (tons)	Mar (tons)	Apr (tons)	May (tons)	Jun (tons)	Jul (tons)	Aug (tons)	Sep (tons)	Oct (tons)	Nov (tons)	Dec (tons)	Permit Limit (consecutive 12-month)
NO_x	0.0	0.0	0.0										8 tons
co	0.0	0.0	0.0										17 tons
VOC	0.0	0.0	0.0										5.1 tons
SO ₂	0.0	0.0	0.0										4 tons
PM ₁₀	0.0	0.0	0.0										12 tons

H ₂ S ppmv in CPF-1 Fuel Gas (12-mth avg.)	112.8	114.6	113.6					200 ppmv
Sulfur Content in LEPD (wt%) Monthly analytical results	0.107	0.109	0.111					0.5 wt%

12-Month Running Total Actual SO₂ Emissions Summary

Kuparuk DS1E/1J Drill Rig Heaters/Boilers, Production Heaters, Portable Flare 2019

Version 2019.5

					12-1	Month Per	iod Ending	:					
Unit	Jan (tons)	Feb (tons)	Mar (tons)	Apr (tons)	May (tons)	Jun (tons)	Jul (tons)	Aug (tons)	Sep (tons)	Oct (tons)	Nov (tons)	Dec (tons)	Permit Limit (consecutive 12-month)
EU ID 59 Drill Rig Heaters & Boilers	0.06	0.13	0.13										N/A
EU IDs 42, 46, & 47 Production Heaters	2.0	2.1	2.0										N/A
EU ID 34 Portable Flare	0.0	0.0	0.0										N/A
Total	2.1	2.2	2.1										35 tons

DS1E & DS1J Emission Units

H ₂ S ppmv in Lift Gas Tie Line Monthly Analytical Results	113.0	118.6	111.7					275 ppmv (instantaneous)
Sulfur Content in ULSD (wt%) Monthly analytical results	0.000300	0.000300	0.000300					0.0015 Wt %
Sulfur Content in LEPD (wt%) Monthly analytical results	0.107	0.109	0.111					0.15 Wt %

ConocoPhillips Alaska, Inc.

12-Month Running Total Actual VOC Emissions Summary

Kuparuk DS1E/IJ Temporary Crude Oil Storage Tanks (EU ID 56) 2019

Version 2019.5

					12-]	Month Per	iod Ending	:					
Location	Jan (tons)	Feb (tons)	Mar (tons)	Apr (tons)	May (tons)	Jun (tons)	Jul (tons)	Aug (tons)	Sep (tons)	Oct (tons)	Nov (tons)	Dec (tons)	Permit Limit (consecutive 12-month)
DSIE	0.000	0.000	0.000										N/A
DS1J	10.544	10.544	10.544										N/A
Total	10.544	10.544	10.544										34 tons

Stationary Source Total Fuel Consumption Summary

Kuparuk Central Production Facility No. 1

TVP01 Permit Condition 10.4 2019

Version 2019.5

					,		,			,		,	Version 2019.5
Unit	Jan	Feb	March	April	May	June	July	Aug	Sept	Oct	Nov	Dec	Year to Date Total
Group I	***************************************		***************************************	**********	<u> </u>	***********	<u> </u>				***************************************	 	
Gas Turbines (IDs 1-14) (MMSCF)	726.7	663.3	664.5										2,054.5
Group I Gas Turbines (IDs 1-14) (Gallons)	0.0	0.0	0.0										0.0
Group II Heaters (IDs 15-18) (MMSCF)	22.3	19.9	20.9										63.1
Group II Heaters (IDs 15-18) (Gallons)	0.0	0.0	0.0										0.0
Group III Diesel Fired Equipment (IDs 19-28) (Gallons)	33.2	0.0	0.0										33.2
Group IV Flares (IDs 29-34) (MMSCF)	56.1	48.0	49.3										153.5
Group V Incinerators (IDs 35-36) (MMSCF)	2.4	2.0	2.0										6.3
Group VI Drill Site Heaters (IDs 37-50) (MMSCF)	112.6	101.8	112.7										327.1
Drill Rig Engines (ID 58) (Galllons)	0.0	5,525.0	0.0										5,525.0
Drill Rig Htrs and Boilers (ID 59) (Gallons)	0.0	10,094.0	0.0										10,094.0
Drill Rig Camp Engines (ID 60) (Gallons)	0.0	0.0	0.0										0.0

Air Quality Operating Permit No. AQ0267TVP01, Rev. 2 (issued August 8, 2007)

Attachment 4

Copies of Excess Emission/Permit Deviation Reports Not Previously Submitted to ADEC during the reporting period

None

First Quarter 2019 Operating Report

Page 14

Air Quality Operating Permit No. AQ0267TVP01, Rev. 2 (issued August 8, 2007)

Attachment 5

Copies of Excess Emission/Permit Deviation Reports Previously Submitted during the reporting period

March 12: Permit Deviation for EU 56

March 12: Permit Deviation for 4Q18 Operating Report



March 12, 2019

Brad Broker/Catie Coursen Environmental Coordinator P.O. Box 196105 Anchorage, AK 99519-6105 (907) 659-7242 (phone) (907) 659-7712 (fax) n1037@conocophillips.com

Certified Mail
Return Receipt Requested
7016 1370 0000 0848 9923

Attn: Compliance Technician
Air Quality Management Division
Alaska Department of Environmental Conservation
610 University Avenue
Fairbanks, Alaska 99709

Subject: Permit Deviation - Flowback Supporting Information Omission

Kuparuk Central Production Facility No.1

Permit No. AQ0267TVP01 Rev. 2, 8 August 2007

The ConocoPhillips Alaska, Inc. (COPA) Operating Report (OR) for the Kuparuk Central Production Facility #1 (CPF-1) reporting period ending September 30, 2018 errantly omitted flowback supporting information as required by the operating permit.

Please find the associated Permit Deviation Report for this omission attached. The missing information has been submitted to the Department under separate cover.

If you have any questions or need additional information regarding this report, please contact us at n1037@conocophillips.com or by phone at (907) 659-7242.

Sincerely,

Brad Broker/Catie Coursen Environmental Coordinator

Attachments

CC:

Compliance Technician, Fairbanks

dec.ag.airreports@alaska.gov

Section 20.		C Notification			(007) 454 5470
		,	') 451-2187	Telephone:	(907) 451-5173
ConocoPhillips A Company Name	Maska, Inc				
Kuparuk Central	Productio	n Facility #1			
acility Name					
Reason for n □ Excess E If you checked Fill out section	E <mark>missio</mark> d this bo.	ns [☑ Other Devia f you checked fill out section 2	this box	Permit Condition
•	discove /4/2019	r the Excess Time:	Emissions or 0 16:30	Other Devia	ition:
Section 1. Ex	cess E	missions			
(a) Eve START			e 24-hour clock END Time:	x):	Duration (hr:min):
(c) So Identify e and nam	each emis ne as in the	v olved: sion source inv e permit. List a	ny control device	, using the sa or monitoring	me identification number system affected by the
		itional sheets a Source Name			Control Device
Jource	ID INO.	Ocarce Hame	20 COOT DETOIL		
ldentify e known o this repo	each emis r suspecte	sion standard p ed injuries or he additional shee	ially Exceeded to tentially exceeded ealth impacts. Ide ets as necessary.	ed during the	event. Attach a list of ALL servation or data prompted Emissions Observe
` ,		nission Red on of the measu		nize and/or co	ontrol emissions during the
Àttach a	description		actions taken to r aces of a recurren		stem to normal operation
(a) Un	avoidah	le Emissior	is:		
(5) 3					
					Page

Do you intend to assert that these excess emissions were unavoidable?

Do you intend to assert the affirmative defense of 18 AAC 50.235?

YES

NO

Section 2. Other Permit Deviations

(a) Sources Involved:

Identify each emission source involved in the event, using the same identification number and name as in the permit. List any control device or monitoring system affected by the event. Attach additional sheets as necessary.

Source ID No. Source Name

Description

Control Device

Temporary Crude Oil Storage Tanks

(b) Permit Condition Deviation:

Identify each permit condition deviation or potential deviation. Attach additional sheets as necessary.

Permit Condition	Potential Deviation
42.3 The Permittee shall include with each	CPAI did not submit flowback simulation model
operating report under condition 88:	inputs, outputs, and calculations and assumptions
a. the monthly VOC emissions estimated in	used in EU ID 56 VOC emission estimates
condition 42.2 at DS1E and DS1J and the	reported in Attachment 7 of the 3Q 2018 operating
12 consecutive month VOC emissions, for	report for flowbacks to temporary crude oil storage
each calendar month in the reporting period;	tanks that occurred in July and September 2018.
b. the input and output from simulation models	
and software; and	
c. all calcuations and assumptions used.	
88.1 The operating report must include all	CPAI did not include in the 3Q 2018 operating
information requred to be in operating reports by	report the information required by Conditions 42.3b
other conditions of this permit.	and 42.3c.
90 The Permittee must comply with each permit	CPAI did not comply with each permit term and
term and condition.	condition.

(c) Corrective Actions:

Attach a description of actions taken to correct the deviation or potential deviation and to prevent recurrence.

A supplement to the previously submitted 3Q 2018 operating report will be submitted to ADEC under separate cover.

Documentation for future well maintenance flowback events will more clearly identify the need for inclusion in the appropriate operating report.

Based on information and belief formed after reasonable inquiry, I certify that the statements and information in and attached to this document are true, accurate, and complete.

Dennis Melton

Printed Name:



March 12, 2019

Brad Broker/Catie Coursen Environmental Coordinator P.O. Box 196105 Anchorage, AK 99519-6105 (907) 659-7242 (phone) (907) 659-7712 (fax) n1037@conocophillips.com

Certified Mail
Return Receipt Requested
7016 1370 0000 0848 9916

Attn: Compliance Technician
Air Quality Management Division
Alaska Department of Environmental Conservation
610 University Avenue
Fairbanks, Alaska 99709

Subject: Permit Deviation Report Submitted with 4Q 2018 Operating Report

Kuparuk Central Production Facility No.1

Permit No. AQ0267TVP01 Rev. 2, 8 August 2007

The ConocoPhillips Alaska, Inc. (COPA) Operating Report (OR) for the Kuparuk Central Production Facility #1 (CPF-1) reporting period ending December 31, 2018 included a Permit Deviation (PD) report for failure to submit NSPS Subpart J and NSPS Subpart GGG semi-annual reports covering the period Jan – Jun 2018 to the Department at the time of submittal to EPA (July 27, 2018) and not including these reports as attachments to the 3Q 2018 OR. After submittal of the PD report in the OR, a corrected PD report was submitted on February 12, 2019 that identified additional permit conditions that should have been included on the original PD report.

During a routine annual compliance certification audit, the PD report submitted to the Department with the 4Q 2018 OR was found to have omitted the Date of Deviation as required by condition 88.2 for Excess Emission and Permit Deviation Reports that occurred during the reporting period, but have not been previously submitted to the Department. The form contained in Section 20 of the CPF1 permit that is normally used for PD reporting does not contain a location to indicate the Date of Deviation. Because the PD was submitted with the OR, condition 88.2 was determined to apply to the submittal.

Attached is a new PD report that describes the deviation identified in the reporting process. A second correction to the PD report for the failure to submit NSPS Subpart J and NSPS Subpart GGG reports to the Department at the time of submittal to EPA has been submitted to the Department separately as a supplement to the Fourth Quarter OR.

If you have any questions or need additional information regarding this report, please contact us at n1037@conocophillips.com or by phone at (907) 659-7242.

Sincerely,

Brad Broker/Catie Coursen Environmental Coordinator

Attachments

cc: Compliance Technician, Fairbanks

dec.aq.airreports@alaska.gov

Section 20.		C Notification		1 I	(007) 454 5470
		form to: (907)	451-2187	Telephone:	(907) 451-5173
ConocoPhillips A Company Name	laska, Inc	•			
uparuk Central	Productio	n Facility #1			
Reason for n	otificati				
Excess E					Permit Condition
you checked			you checked		
ill out section	7	111	ll out section	2	
Vhen did you Date: 3.		r the Excess Time: 1		Other Devia	tion:
ection 1. Ex	cess E	missions			
		rmation (Use		ck):	.
START	Time:		END Time:		Duration (hr:min):
,					Total:
(b) Cai	use of E	event (Check			
☐ STAR	T UP		CONDITION		ITROL EQUIPMENT
☐ SHUT			DULED MAINT		☐ OTHER
		•	at happened, i	ncluding the pai	rameters or operating
condition	s exceed	∍d.			
(a) Sa	irooe In	volved:			
Identify 6	art es III ach amis	sion source inve	alved in the eve	nt_using the sa	me identification number
and nam	e as in the	a permit. List ar	nv control devic	e or monitoring	system affected by the
		itional sheets as		<i>-</i> • • • • • • • • • • • • • • • • • • •	,
Source		Source Name	Description		Control Device
(d) Em	ission l	_imit Potenti	ally Exceed	ed ded during the	event. Attach a list of ALL
known o	suspecte	ed injuries or hea additional shee	alth impacts. ld	lentify what obs	ervation or data prompted
	ondition			· · · · · · · · · · · · · · · · · · ·	Emissions Observ
200000000000000000000000000000000000000					
L					
(e) Exe	cess En	nission Redu	ıction:		•
Attach a	descriptio	n of the measui	res taken to mii	nimize and/or co	ontrol emissions during the
event.	aooonpu	,, 0, 1,,0 ,,,0 ,,,0			Ū
,		A 4*			
		Actions:	- C ()		stana ta napunal an austiau
Attach a	descriptio	n of corrective a	actions taken to	restore the sys	stem to normal operation
and to m	inimize oi	eliminate chan	ces or a recurre	nice.	
·			· · · · · · · · · · · · · · · · · · ·		Page

(g) Unavoidable Emissions:

Do you intend to assert that these excess emissions were unavoidable?

YES NO

Do you intend to assert the affirmative defense of 18 AAC 50.235?

YES NO

Section 2. Other Permit Deviations

(a) Sources Involved:

Identify each emission source involved in the event, using the same identification number and name as in the permit. List any control device or monitoring system affected by the event. Attach additional sheets as necessary.

Source ID No. Source Name

Description

Control Device

(b) Permit Condition Deviation:

Identify each permit condition deviation or potential deviation. Attach additional sheets as necessary.

Permit Condition	Potential Deviation
88.1 The operating report must include all information requred to be in operating reports by other conditions of this permit.	CPAI did not include in the 4Q 2018 operating report all of the information required by Condition 88.2a.
88.2 If excess emissions or permit deviations that occurred during the reporting period are not reported under condition 88.1, either	The Permit Deviation Report submitted by CPAI on 2/12/2019 did not contain the date of the deviation.
a. The Permttte shall identify (i) the date of the deviation; (ii) the equipment involved; (iii) the permit condition affected; (iv) a description of the exess emissions or permit deviation; and (v) any correcctive action or preventative measures taken and the date of such actions; or	(The 2/12/19 PD report was about not attaching a copy of the Jan – Jun 2018 semi-annual NSPS Subparts J and GGG reports to the 3Q 2018 Operating Report.)
90 The Permittee must comply with each permit	CPAI did not comply with each permit term and
term and condition.	condition.

(c) Corrective Actions:

Attach a description of actions taken to correct the deviation or potential deviation and to prevent recurrence.

A corrected Excess Emission / Permit Deviation Report has been submitted to the Department under separate cover as part of an amendment to the 4Q 2018 Operating Report. An Excess Emission / Permit Deviation Report template was created on 3/6/2019 to include all required information for future use.

Based on information and belief formed after reasonable inquiry, I certify that the statements and information in and attached to this document are true, accurate, and complete.

Dennis Melton

Printed Name:

Signature:

Date:

Air Quality Operating Permit No. AQ0267TVP01, Rev. 2 (issued August 8, 2007)

Attachment 6

Copies of Method 9 Opacity Observations during the reporting period NONE

First Quarter 2019 Operating Report

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Air Quality Operating Permit No. AQ0267TVP01, Rev. 2 (issued August 8, 2007)

Attachment 7

1E/1J VOC Emissions from EU ID 56 with Inputs and Outputs

First Quarter 2019 Operating Report

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Operator's Gas Venting Logsheet CPF1 ORL 267CP02 DS 1E / 1J Jan-19

Date/Time Start	Date/Time Finish	Well/Area	Fluid ID	Total Vol Crude (BBL)	Est Gas Vol Vented MCF	Est VOC Tons	Comments/Description
N/A	N/A	1E	N/a	0.0	0,0	0,00	Na gas venting from 1E West Sak wells during this month
N/A	N/A	ij	N/A	0.0	0.0	0.00	No gas venting from 13 West Sak wells during this month
					Manthly Total VOC's	0.000	

Monthly Total VOC's

0.000

Prior 11 months rolling Cumulative Volume =

10,600 10,600

Rolling 12 month VOC Limit: 34 Tons

Rolling 12 month cumulative Total =

Production Engineer:

PREVIOUS VOC'S FROM INITIAL OBM FLOWBACKS HAVE BEEN REMOVED PER ADEC

Based on information and belief formed afterfreasonable inquiry, I certify that the statements and information in and attached to this document are true, accurate, and complete.

DSO Responsibility: Notify CPF1 Production Engineer of event description, duration and liquid volumes within 24 hours Forward to CPF1 Production Engineer at the end of each month for final MCF and VOC calculation

Operator's Gas Venting Logsheet CPF1 ORL 267CP02 DS 1E / 1J Feb-19

Date/Time Start	Date/Time Finish	Well/Area	Fluid ID	Total Vol Crude (BBL)	Est Gas Vol Vented MCF	Est VOC Tons	Comments/Description
N/A	N/A	1E	N/A	0.0	0.0	0.00	No gas venting from 1E West Sak wells during this month
N/A	N/A	1J	N/A	0.0	0.0	0.00	No gas venting from 1J West Sak wells during this month
		,					
		A delana constitutiva del mante del					
							

Monthly Total VOC's

0,000

Prior 11 months rolling Cumulative Volume =

10.600

Rolling 12 month VOC Limit: 34 Tons Rolling 12 month cumulative Total =

10.600

Production Engineer:

PREVIOUS VOC'S FROM INITIAL OBM FLOWBACKS HAVE BEEN REMOVED PER ADEC

Based on information and belief formed after responsible inquiry, I certify that the statements and information in and attached to this document are true, accurate, and complete.

DSO Responsibility: Notify CPF1 Production Engineer of event description, duration and liquid volumes within 24 hours Forward to CPF1 Production Engineer at the end of each month for final MCF and VOC calculation

Operator's Gas Venting Logsheet CPF1 ORL 267CP02 DS 1E / 1J Mar-19

Date/Time Start	Date/Time Finish	Well/Area	Fluid ID	Total Vol Crude (BBL)	Est Gas Vol Vented MCF	Est VOC Tons	Comments/Description
N/A	N/A	15	N/A	0.0	0.0	0.00	No gas venting from 1E West Sak wells during this month
N/A	N/A	ij	N/A	0.0	0.0	0.00	No gas venting from 1J West Sak wells during this month

					Mrs. Control of the C		
					Monthly Total VOC's	0.000	

Monthly Total VOC's

0.000

Prior 11 months rolling Cumulative Volume =

10.600

Rolling 12 month cumulative Total =

10,600

Production Engineer:

PREVIOUS VOC'S FROM INITIAL OBM FLOWBACKS HAVE BEEN REMOVED PER ADEC

Rolling 12 month VOC Limit: 34 Tons

Based on information and belief formed after reasonable

inquiry, I certify that the statements and information in and attached to this document are true, accurate, and complete.

DSO Responsibility: Notify CPF1 Production Engineer of event description, duration and liquid volumes within 24 hours Forward to CPF1 Production Engineer at the end of each month for final MCF and VOC calculation

Air Quality Operating Permit No. AQ0267TVP01, Rev. 2 (issued August 8, 2007)

Attachment 8

EU 58, 59, 61 and 62 Fuel Use Corrections

Air Quality Operating Permit No. AQ0267TVP01, Rev. 2 (issued August 8, 2007)

Month	Fuel Use
EU	ID 58
November 2016	0.0
December 2016	0.0
June 2017	0.0
October 2017	0.0
EU	ID 59
November 2016	0.0
December 2016	0.0
June 2017	0.0
October 2017	0.0
EU	ID 61
October 2017	17,807.0
December 2017	4,423.0
EU	ID 62
October 2017	1,224.0
December 2017	1,984.0

Air Quality Operating Permit No. AQ0267TVP01, Rev. 2 (issued August 8, 2007)

Attachment 9

1E/1J VOC Emissions from EU ID 56 Corrections

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Operator's Gas Venting Logsheet CPF1 ORL 267CP02 DS 1E / 1J

Jun-18

Date/Time Start	Date/Time Finish	Well/Area	Fluid ID	Total Vol	Est Gas Vol Vented	Est VOC	Comments/Description
				Crude (BBL)	MCF	Tons	
N/A	X A	77	N/A	0.0	0.0	00.0	No gas venting from 1E West Sak wells during this month
N/A	N/A	13	N/A	0.0	0.0	00.0	No gas venting from 1J West Sak weils during this month
			Pri	or 11 months rol	Monthly Total VOC's Prior 11 months rolling Cumulative Volume \approx	0.00.0	
Rolling 12 month V	Rolling 12 month VOC Limit: 34 Tons			Rolling 12 m	Rolling 12 month cumulative Total =	0.000	

Rolling 12 month cumulative 1 of al =

Production Engineer:

Based on information and belief formed after feasonable

attached to this document are true, accurate, and complete. inquiry, I certify that the statements and information in and

DSO Responsibility: Notify CPF1 Production Engineer of event description, duration and liquid volumes within 24 hours Forward to CPF1 Production Engineer at the end of each month for final MCF and VOC calculation

PREVIOUS VOC'S FROM INITIAL OBM FLOWBACKS HAVE BEEN REMOVED PER ADEC